Central Trading Agency

TITLE OF INVENTION: Microfiber Mouse Pad

CROSS REFERENCE TO RELATED APPLICATIONS: Not applicable

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT: Not applicable

INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC: Not applicable

BACKGROUND OF THE INVENTION

1. FIELD OF INVENTION:
This invention relates to mouse pads with improved traction and self-cleaning abilities.
2. DESCRIPTION OF RELATED ART:
There are two main problems with most existing mouse pads.

They do not provide a mousing surface that will allow for maximum precision when moving the rubber ball inside of the mouse across the surface of the mouse pad. Existing plastic surfaces are too slick and lacking in texture and do not provide enough traction for accuracy in mousing, having brilliant graphics and printing on the pad being more of a primary goal. Cloth surfaces tend to attract dust and dirt and also shed tiny fragments of cloth. For maximum precision mechanical roller track balls on the underside of the mouse need a mousing surface (mouse pad) that possesses the maximum number of points of contact, so that it can grab hold of and stop at each point of contact. There needs to be as many "hold" or stopping points for the roller ball to grab onto as there are cursor movement locations on the computer screen, thereby true and full accuracy in mousing can be attained.

2- Dirt from the environment and the hands of the operator using the mouse and mouse pad accumulates on the mouse pad surface and eventually migrates to the inside of the rubber track ball of the mouse. As the ball glides over the surface, gradually so much dirt is transferred to the rollers that traction is reduced, creating erratic movements and causing the mouse to "skip" or "freeze". This dramatically reduces the productivity of the computer user. The solution to this has been to disassemble and clean the part of the mouse where the trackball is housed or to replace the mouse entirely.

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Attempts have been made in the past to produce a surface for a mouse pad that helps to reduce the amount of dirt and debris that gets transferred from the surface of the mouse pad to the inside of the mouse ball mechanism, as the mouse ball rides over the surface of the mouse pad. These attempts have had various levels of success, depending on the materials used and/or the design of the surface structure. None of these attempts have yet to completely solve the problem. The reason is that none of the materials used have been able to completely capture and hold the dirt and prevent it from eventually being transferred to the trackball and the mouse.

BRIEF SUMMARY OF THE INVENTION:

The object of the invention is to provide an improved mouse pad that would have as precise tracking ability as is possible while dramatically curtailing the ability of dust and dirt to get inside the trackball. Split microfiber is deemed the ideal textile fabric for the mouse pad surface that can accomplish both of these goals simultaneously. This is due to the fact that split microfiber:

A. Has over 90,000 fibers per square inch, providing maximum amounts of points of contact for the mouse track ball to grab and hold, thus offering the highest possible level of precision sought after by computer users
B. The super thin .13 denier microfibers are woven into dense wedge shaped strands, creating an expanded internal surface area that captures and holds dust and dirt particles and preventing them from entering the track ball

Thus, it is the microfiber surface layer itself (glued onto the rubber base substrate) that is the invention. This fabric is the vehicle that provides the most ideal mousing surface.

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DETAILED DESCRIPTION:

The microfiber mouse pad is comprised of a top layer of split microfiber, less than 1 millimeter in thickness, glued to a rubber non-skid surface (which could vary in composition). The mouse pad is approximately 7 7/8 in width and 9" in length, with rounded corners. The length can vary as different computer users might have needs for a microfiber mouse that might have smaller width and length dimensions. The microfiber mouse sits completely flat on a surface, generally on top of a desk. The most common type of microfiber weave used for the microfiber mouse pad is call microfiber suede, although other types of microfiber cloth weaves, such as microfiber optical or lens cloth, can also be used and fit the definition of microfiber cloth. The surface of the microfiber "suede" mouse pad is exceptionally soft to the touch. The microfiber individual filaments that comprise the microfiber material are not visible to the naked eye, the construction the fineness of the threads that comprise microfiber can only be seen through magnifying devices such as a microscope, however the diameter of the microfiber threads are approximately one hundredth the diameter of a strand of human hair.